

Nexxstar™ Low EVA-00111

Low Density Polyethylene Resin

Product Description

Nexxstar™ Low EVA-00111 resin is a copolymer of ethylene and vinyl acetate.

General

Availability ¹	- Africa & Middle East - Asia Pacific	- Europe - Latin America	North America
Additive	Antiblock: No	Slip: 150 ppm	Thermal Stabilizer: Yes
Applications	Stretch Hood		
Form(s)	Pellets		
Revision Date	06/17/2020		

Resin Properties

	Typical Value (English)	Typical Value (SI)	Test Based On
Density	0.928 g/cm ³	0.928 g/cm ³	ASTM D1505
Melt Index (190°C/2.16 kg)	0.50 g/10 min	0.50 g/10 min	ASTM D1238
Vinyl Acetate Content	7.5 wt%	7.5 wt%	ExxonMobil Method
Peak Melting Temperature	212 °F	100 °C	ExxonMobil Method

Thermal

	Typical Value (English)	Typical Value (SI)	Test Based On
Vicat Softening Temperature	176 °F	80.0 °C	ExxonMobil Method

Film Properties

	Typical Value (English)	Typical Value (SI)	Test Based On
Tensile Strength at Yield MD	1400 psi	9.8 MPa	ASTM D882
Tensile Strength at Yield TD	940 psi	6.5 MPa	ASTM D882
Tensile Strength at Break MD	4900 psi	34 MPa	ASTM D882
Tensile Strength at Break TD	4300 psi	29 MPa	ASTM D882
Elongation at Break MD	200 %	200 %	ASTM D882
Elongation at Break TD	620 %	620 %	ASTM D882
Secant Modulus MD - 1% Secant	16000 psi	110 MPa	ASTM D882
Secant Modulus TD - 1% Secant	19000 psi	130 MPa	ASTM D882
Dart Drop Impact	360 g	360 g	ASTM D1709A
Elmendorf Tear Strength MD	190 g	190 g	ASTM D1922
Elmendorf Tear Strength TD	60 g	60 g	ASTM D1922
Puncture Force	15 lbf	67 N	ExxonMobil Method
Puncture Energy	25 in-lb	2.8 J	ExxonMobil Method

Optical Properties

	Typical Value (English)	Typical Value (SI)	Test Based On
Gloss (45°)	52	52	ASTM D2457
Haze	9.4 %	9.4 %	ASTM D1003

Legal Statement

Contact your ExxonMobil Chemical Customer Service Representative for potential food contact application compliance (e.g. FDA, EU, HPFB).

This product is not intended for use in medical applications and should not be used in any such applications.

Processing Statement

Film (1.5 mil/38.1 micron) made from Nexxstar™ Low EVA-00111 resin on a 2.5 inch (63.5 mm) blown film line with a 2.5:1 blow-up ratio, a melt temperature of 325–345°F (163–174°C), a 30 mil (0.76 mm) die gap at a rate of 8 lbs/hr/in die circumference (1.43 kg/hr/cm).

Nexxstar™ Low EVA-00111
Low Density Polyethylene Resin

Notes

Typical properties: these are not to be construed as specifications.

¹ Product may not be available in one or more countries in the identified Availability regions. Please contact your Sales Representative for complete Country Availability.

For additional technical, sales and order assistance: www.exxonmobilchemical.com/ContactUs

©2023 ExxonMobil. ExxonMobil, the ExxonMobil logo, the interlocking "X" device and other product or service names used herein are trademarks of ExxonMobil, unless indicated otherwise. This document may not be distributed, displayed, copied or altered without ExxonMobil's prior written authorization. To the extent ExxonMobil authorizes distributing, displaying and/or copying of this document, the user may do so only if the document is unaltered and complete, including all of its headers, footers, disclaimers and other information. You may not copy this document to or reproduce it in whole or in part on a website. ExxonMobil does not guarantee the typical (or other) values. Any data included herein is based upon analysis of representative samples and not the actual product shipped. The information in this document relates only to the named product or materials when not in combination with any other product or materials. We based the information on data believed to be reliable on the date compiled, but we do not represent, warrant, or otherwise guarantee, expressly or impliedly, the merchantability, fitness for a particular purpose, freedom from patent infringement, suitability, accuracy, reliability, or completeness of this information or the products, materials or processes described. The user is solely responsible for all determinations regarding any use of material or product and any process in its territories of interest. We expressly disclaim liability for any loss, damage or injury directly or indirectly suffered or incurred as a result of or related to anyone using or relying on any of the information in this document. This document is not an endorsement of any non-ExxonMobil product or process, and we expressly disclaim any contrary implication. The terms "we," "our," "ExxonMobil Product Solutions" and "ExxonMobil" are each used for convenience, and may include any one or more of ExxonMobil Product Solutions Company, Exxon Mobil Corporation, or any affiliate either directly or indirectly stewarded.

exxonmobilchemical.com